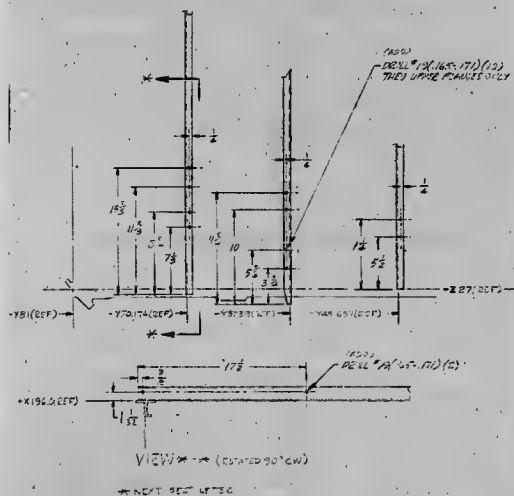


LDW 280-21521 8-1

GRAMMAN AIRCRAFT ENGINEERING CORP.  
 CHAS. G. GRIFFIN, JR.  
 ENGINEERING DEPT.

LDW 280-21521 8-1

IN F/D ADD. REVISIONS FOR CLAMP AS SHOWN BELOW



LDW 280-21521

DATE	DESCRIPTION	BY	CHKD BY	APPROVED BY	DATE	REVISION
1/21/51	REVISION FOR CLAMP AS SHOWN IN F/D ADD.	C				1

REVISION FOR CLAMP AS SHOWN IN F/D ADD.

LDW 280-21521 8-1

[illegible]





1. **SECTION A-A (REV)**  
 2. **SECTION B-B (REV)**  
 3. **SECTION C-C (REV)**  
 4. **SECTION D-D (REV)**  
 5. **SECTION E-E (REV)**  
 6. **SECTION F-F (REV)**  
 7. **SECTION G-G (REV)**  
 8. **SECTION H-H (REV)**  
 9. **SECTION I-I (REV)**  
 10. **SECTION J-J (REV)**  
 11. **SECTION K-K (REV)**  
 12. **SECTION L-L (REV)**  
 13. **SECTION M-M (REV)**  
 14. **SECTION N-N (REV)**  
 15. **SECTION O-O (REV)**  
 16. **SECTION P-P (REV)**  
 17. **SECTION Q-Q (REV)**  
 18. **SECTION R-R (REV)**  
 19. **SECTION S-S (REV)**  
 20. **SECTION T-T (REV)**  
 21. **SECTION U-U (REV)**  
 22. **SECTION V-V (REV)**  
 23. **SECTION W-W (REV)**  
 24. **SECTION X-X (REV)**  
 25. **SECTION Y-Y (REV)**  
 26. **SECTION Z-Z (REV)**  
 27. **SECTION AA-AA (REV)**  
 28. **SECTION BB-BB (REV)**  
 29. **SECTION CC-CC (REV)**  
 30. **SECTION DD-DD (REV)**  
 31. **SECTION EE-EE (REV)**  
 32. **SECTION FF-FF (REV)**  
 33. **SECTION GG-GG (REV)**  
 34. **SECTION HH-HH (REV)**  
 35. **SECTION II-II (REV)**  
 36. **SECTION JJ-JJ (REV)**  
 37. **SECTION KK-KK (REV)**  
 38. **SECTION LL-LL (REV)**  
 39. **SECTION MM-MM (REV)**  
 40. **SECTION NN-NN (REV)**  
 41. **SECTION OO-OO (REV)**  
 42. **SECTION PP-PP (REV)**  
 43. **SECTION QQ-QQ (REV)**  
 44. **SECTION RR-RR (REV)**  
 45. **SECTION SS-SS (REV)**  
 46. **SECTION TT-TT (REV)**  
 47. **SECTION UU-UU (REV)**  
 48. **SECTION VV-VV (REV)**  
 49. **SECTION WW-WW (REV)**  
 50. **SECTION XX-XX (REV)**  
 51. **SECTION YY-YY (REV)**  
 52. **SECTION ZZ-ZZ (REV)**  
 53. **SECTION AA-AA (REV)**  
 54. **SECTION BB-BB (REV)**  
 55. **SECTION CC-CC (REV)**  
 56. **SECTION DD-DD (REV)**  
 57. **SECTION EE-EE (REV)**  
 58. **SECTION FF-FF (REV)**  
 59. **SECTION GG-GG (REV)**  
 60. **SECTION HH-HH (REV)**  
 61. **SECTION II-II (REV)**  
 62. **SECTION JJ-JJ (REV)**  
 63. **SECTION KK-KK (REV)**  
 64. **SECTION LL-LL (REV)**  
 65. **SECTION MM-MM (REV)**  
 66. **SECTION NN-NN (REV)**  
 67. **SECTION OO-OO (REV)**  
 68. **SECTION PP-PP (REV)**  
 69. **SECTION QQ-QQ (REV)**  
 70. **SECTION RR-RR (REV)**  
 71. **SECTION SS-SS (REV)**  
 72. **SECTION TT-TT (REV)**  
 73. **SECTION UU-UU (REV)**  
 74. **SECTION VV-VV (REV)**  
 75. **SECTION WW-WW (REV)**  
 76. **SECTION XX-XX (REV)**  
 77. **SECTION YY-YY (REV)**  
 78. **SECTION ZZ-ZZ (REV)**  
 79. **SECTION AA-AA (REV)**  
 80. **SECTION BB-BB (REV)**  
 81. **SECTION CC-CC (REV)**  
 82. **SECTION DD-DD (REV)**  
 83. **SECTION EE-EE (REV)**  
 84. **SECTION FF-FF (REV)**  
 85. **SECTION GG-GG (REV)**  
 86. **SECTION HH-HH (REV)**  
 87. **SECTION II-II (REV)**  
 88. **SECTION JJ-JJ (REV)**  
 89. **SECTION KK-KK (REV)**  
 90. **SECTION LL-LL (REV)**  
 91. **SECTION MM-MM (REV)**  
 92. **SECTION NN-NN (REV)**  
 93. **SECTION OO-OO (REV)**  
 94. **SECTION PP-PP (REV)**  
 95. **SECTION QQ-QQ (REV)**  
 96. **SECTION RR-RR (REV)**  
 97. **SECTION SS-SS (REV)**  
 98. **SECTION TT-TT (REV)**  
 99. **SECTION UU-UU (REV)**  
 100. **SECTION VV-VV (REV)**  
 101. **SECTION WW-WW (REV)**  
 102. **SECTION XX-XX (REV)**  
 103. **SECTION YY-YY (REV)**  
 104. **SECTION ZZ-ZZ (REV)**  
 105. **SECTION AA-AA (REV)**  
 106. **SECTION BB-BB (REV)**  
 107. **SECTION CC-CC (REV)**  
 108. **SECTION DD-DD (REV)**  
 109. **SECTION EE-EE (REV)**  
 110. **SECTION FF-FF (REV)**  
 111. **SECTION GG-GG (REV)**  
 112. **SECTION HH-HH (REV)**  
 113. **SECTION II-II (REV)**  
 114. **SECTION JJ-JJ (REV)**  
 115. **SECTION KK-KK (REV)**  
 116. **SECTION LL-LL (REV)**  
 117. **SECTION MM-MM (REV)**  
 118. **SECTION NN-NN (REV)**  
 119. **SECTION OO-OO (REV)**  
 120. **SECTION PP-PP (REV)**  
 121. **SECTION QQ-QQ (REV)**  
 122. **SECTION RR-RR (REV)**  
 123. **SECTION SS-SS (REV)**  
 124. **SECTION TT-TT (REV)**  
 125. **SECTION UU-UU (REV)**  
 126. **SECTION VV-VV (REV)**  
 127. **SECTION WW-WW (REV)**  
 128. **SECTION XX-XX (REV)**  
 129. **SECTION YY-YY (REV)**  
 130. **SECTION ZZ-ZZ (REV)**  
 131. **SECTION AA-AA (REV)**  
 132. **SECTION BB-BB (REV)**  
 133. **SECTION CC-CC (REV)**  
 134. **SECTION DD-DD (REV)**  
 135. **SECTION EE-EE (REV)**  
 136. **SECTION FF-FF (REV)**  
 137. **SECTION GG-GG (REV)**  
 138. **SECTION HH-HH (REV)**  
 139. **SECTION II-II (REV)**  
 140. **SECTION JJ-JJ (REV)**  
 141. **SECTION KK-KK (REV)**  
 142. **SECTION LL-LL (REV)**  
 143. **SECTION MM-MM (REV)**  
 144. **SECTION NN-NN (REV)**  
 145. **SECTION OO-OO (REV)**  
 146. **SECTION PP-PP (REV)**  
 147. **SECTION QQ-QQ (REV)**  
 148. **SECTION RR-RR (REV)**  
 149. **SECTION SS-SS (REV)**  
 150. **SECTION TT-TT (REV)**  
 151. **SECTION UU-UU (REV)**  
 152. **SECTION VV-VV (REV)**  
 153. **SECTION WW-WW (REV)**  
 154. **SECTION XX-XX (REV)**  
 155. **SECTION YY-YY (REV)**  
 156. **SECTION ZZ-ZZ (REV)**  
 157. **SECTION AA-AA (REV)**  
 158. **SECTION BB-BB (REV)**  
 159. **SECTION CC-CC (REV)**  
 160. **SECTION DD-DD (REV)**  
 161. **SECTION EE-EE (REV)**  
 162. **SECTION FF-FF (REV)**  
 163. **SECTION GG-GG (REV)**  
 164. **SECTION HH-HH (REV)**  
 165. **SECTION II-II (REV)**  
 166. **SECTION JJ-JJ (REV)**  
 167. **SECTION KK-KK (REV)**  
 168. **SECTION LL-LL (REV)**  
 169. **SECTION MM-MM (REV)**  
 170. **SECTION NN-NN (REV)**  
 171. **SECTION OO-OO (REV)**  
 172. **SECTION PP-PP (REV)**  
 173. **SECTION QQ-QQ (REV)**  
 174. **SECTION RR-RR (REV)**  
 175. **SECTION SS-SS (REV)**  
 176. **SECTION TT-TT (REV)**  
 177. **SECTION UU-UU (REV)**  
 178. **SECTION VV-VV (REV)**  
 179. **SECTION WW-WW (REV)**  
 180. **SECTION XX-XX (REV)**  
 181. **SECTION YY-YY (REV)**  
 182. **SECTION ZZ-ZZ (REV)**  
 183. **SECTION AA-AA (REV)**  
 184. **SECTION BB-BB (REV)**  
 185. **SECTION CC-CC (REV)**  
 186. **SECTION DD-DD (REV)**  
 187. **SECTION EE-EE (REV)**  
 188. **SECTION FF-FF (REV)**  
 189. **SECTION GG-GG (REV)**  
 190. **SECTION HH-HH (REV)**  
 191. **SECTION II-II (REV)**  
 192. **SECTION JJ-JJ (REV)**  
 193. **SECTION KK-KK (REV)**  
 194. **SECTION LL-LL (REV)**  
 195. **SECTION MM-MM (REV)**  
 196. **SECTION NN-NN (REV)**  
 197. **SECTION OO-OO (REV)**  
 198. **SECTION PP-PP (REV)**  
 199. **SECTION QQ-QQ (REV)**  
 200. **SECTION RR-RR (REV)**  
 201. **SECTION SS-SS (REV)**  
 202. **SECTION TT-TT (REV)**  
 203. <

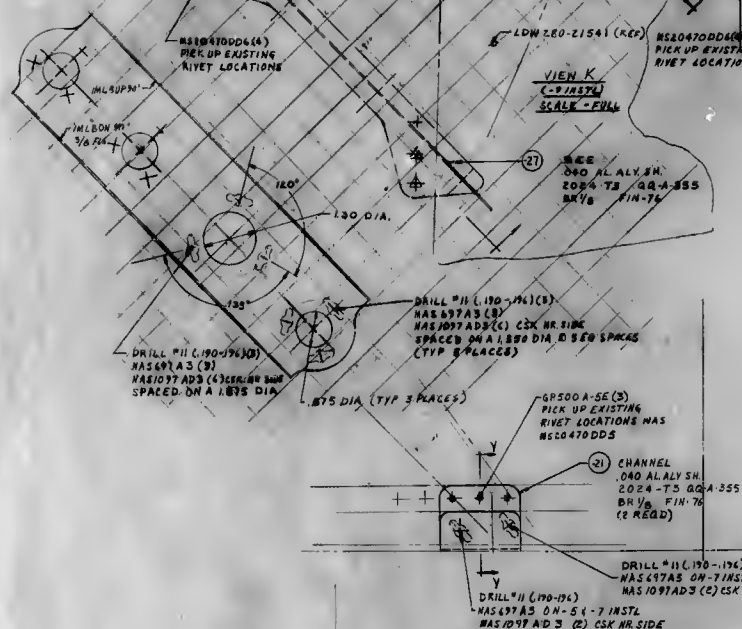
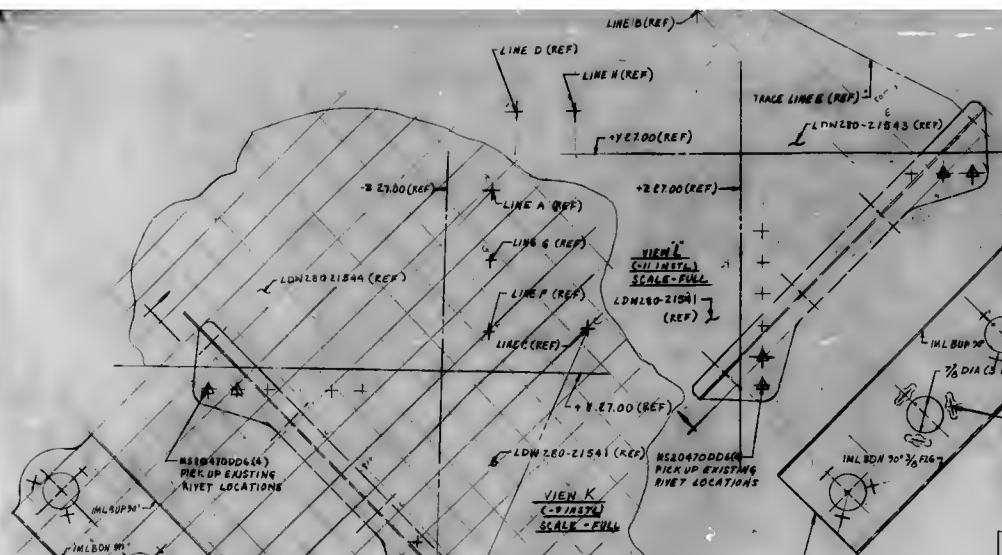
[illegible]





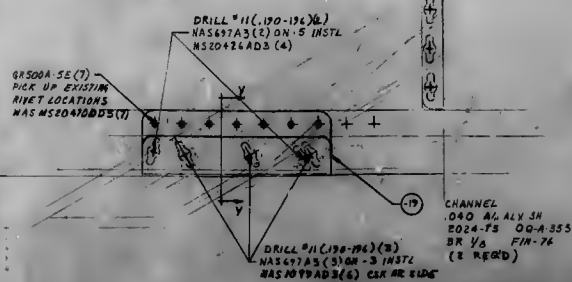
[illegible]

[illegible]

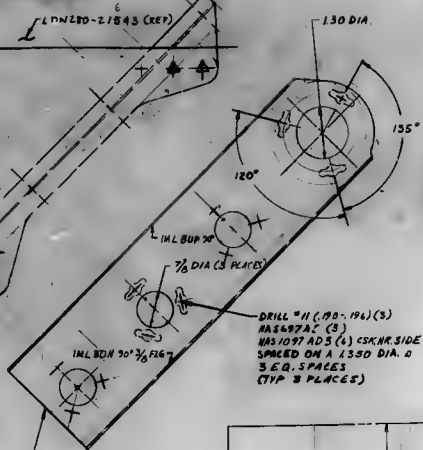


VIEW H  
SCALE - FULL

SECT Y-Y



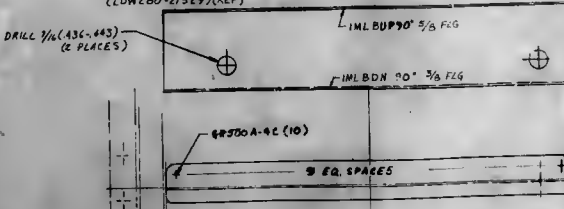
VIEW I  
SCALE - FULL



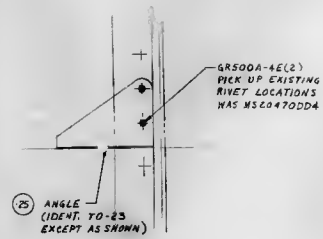
DRILL #11 (190-196) (3)  
HAS 497 AS (3)  
HAS 1097 ADS (4) CSK NR SIDE  
SPACED ON A 1.875 DIA.  
5 EQ. SPACES  
(TYP 3 PLACES)

LEE  
.040 AL ALY SH  
2024-T3 Q-A-355  
BR 1/8 FIN 76  
1 RECD

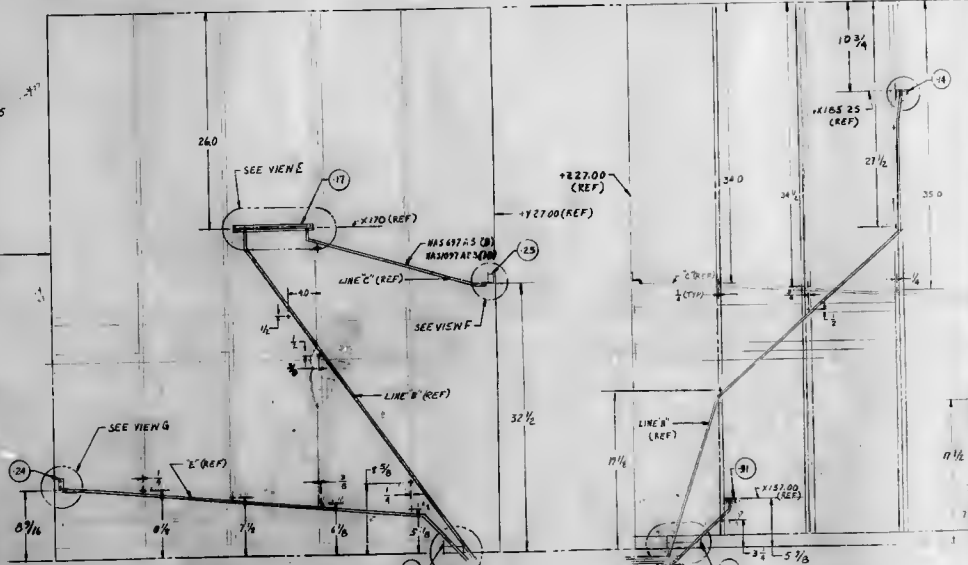
VIEW D-D  
-2 INSTL  
ROTATED 90° C/C W/CL  
(LDN280-21543) (REF)



VIEW E  
SCALE - FULL



VIEW F  
SCALE - FULL



VIEW C-C  
-5 INSTL  
ROTATED 180°  
(LDN280-21535) (REF)

LEE  
.040 AL ALY SH  
2024-T3 Q-A-355  
BR 1/8 FIN 76  
1 RECD



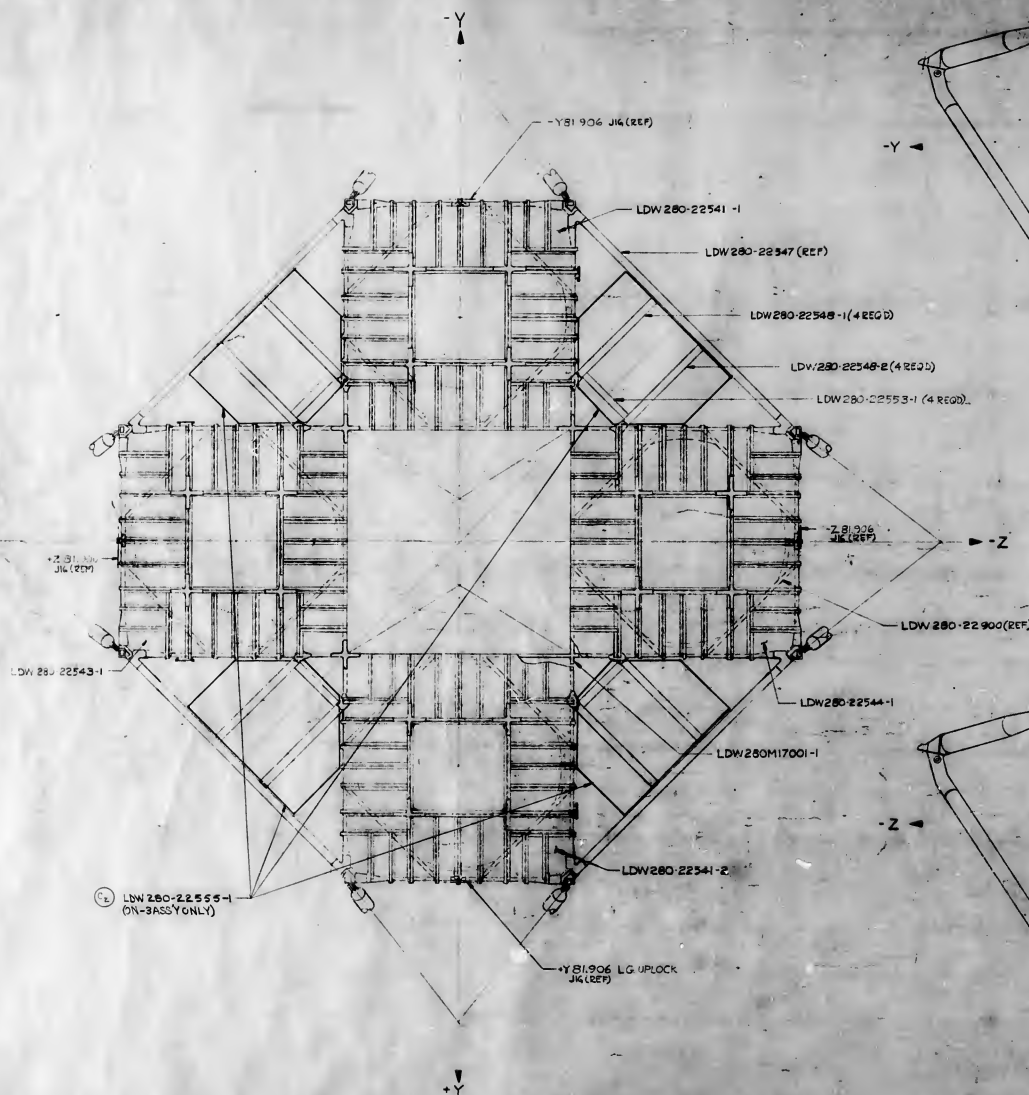




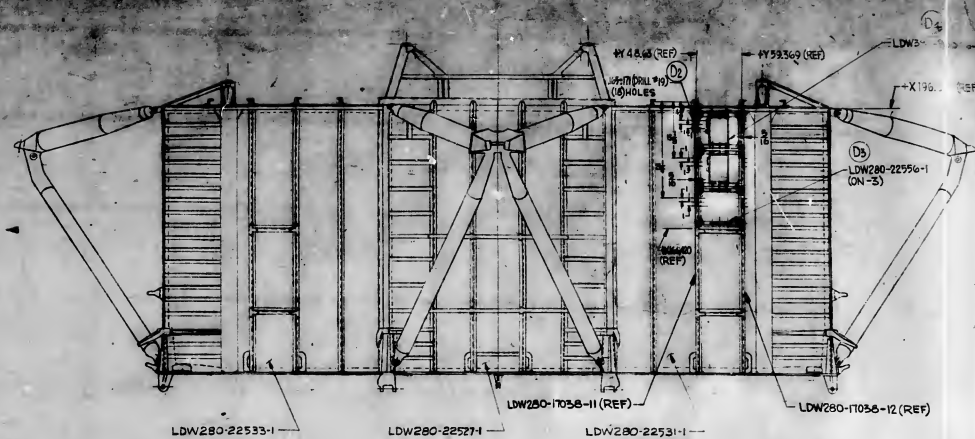




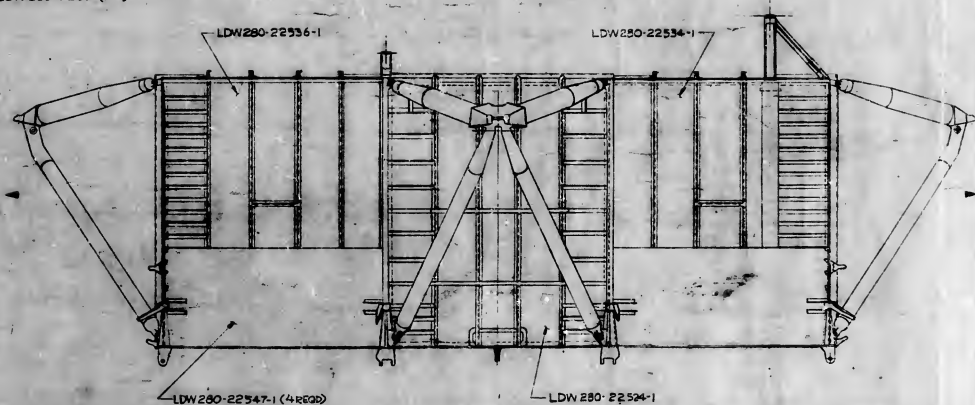




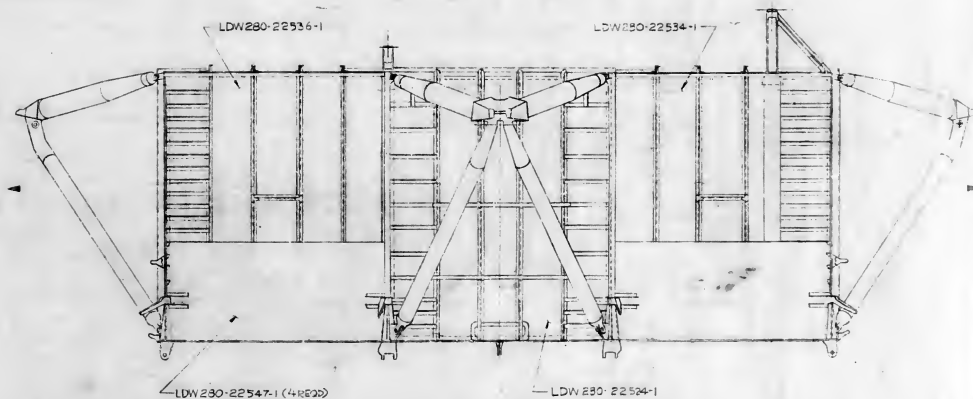
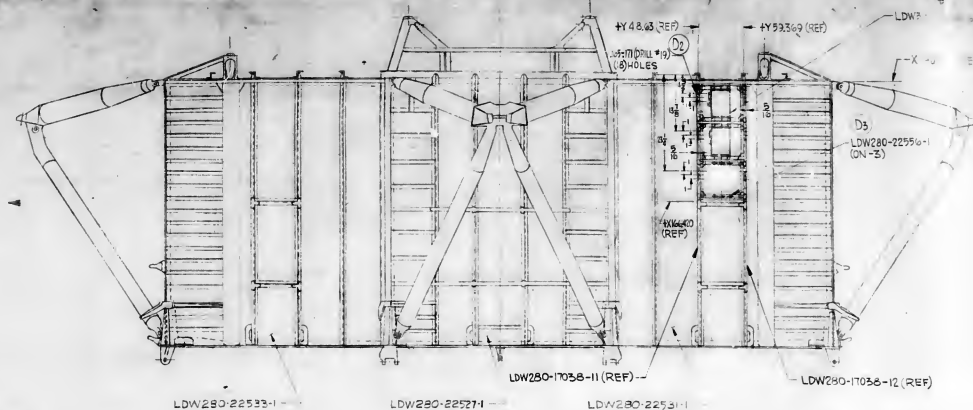
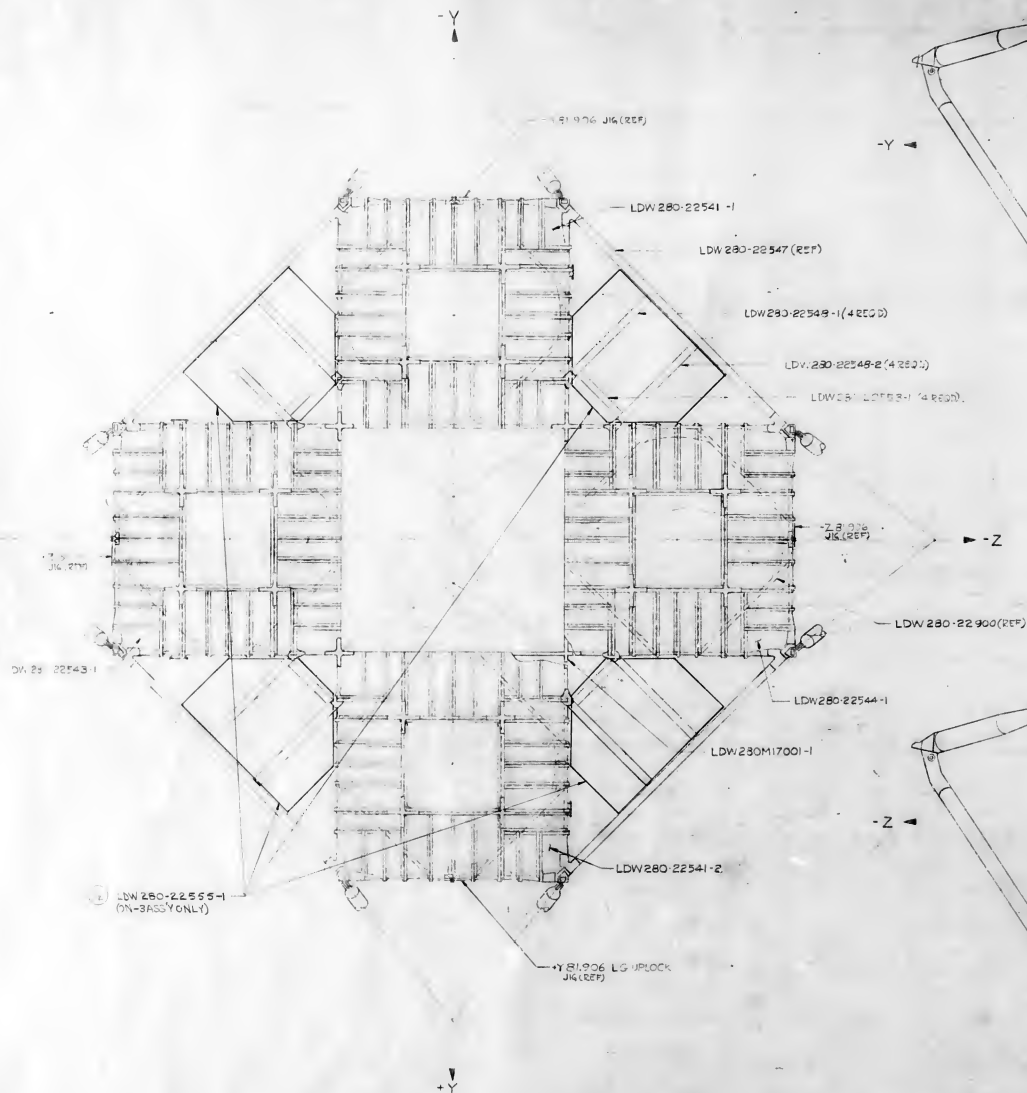
VIEW E-E  
LOOKING UP



VIEW D-D (ROTATED 90° CCW)  
LOOKING FWD  
SIMULATED MASS BEAMS NOT SHOWN

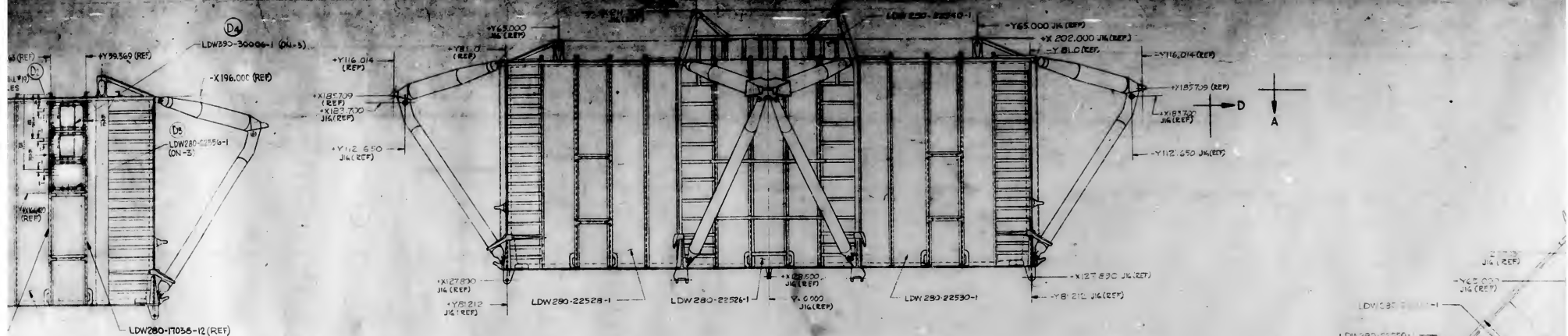


VIEW C-C  
LOOKING INBD - RH SIDE

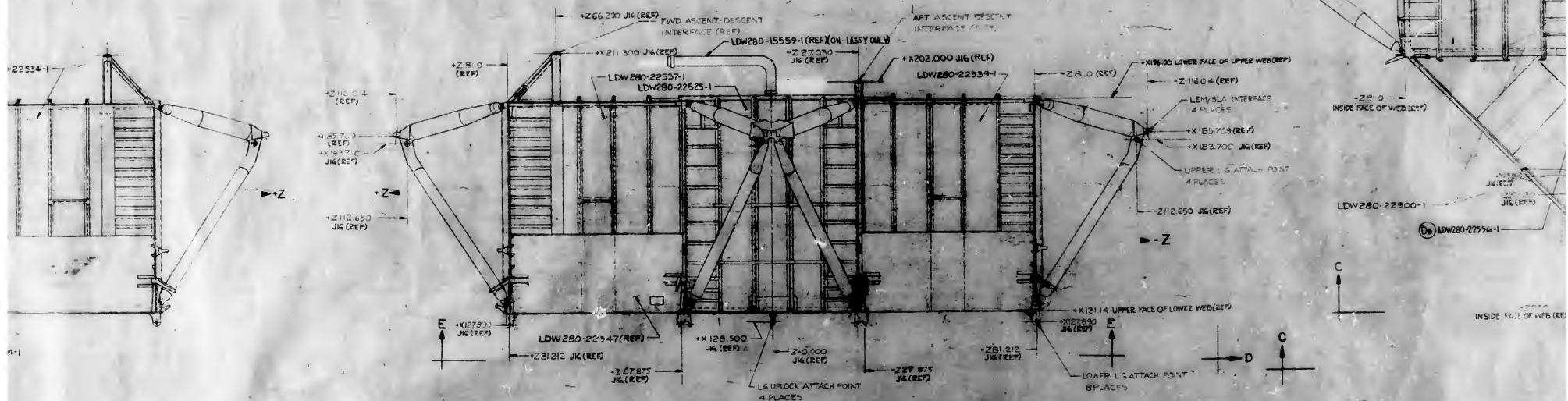


01/04

NAS 9-1100

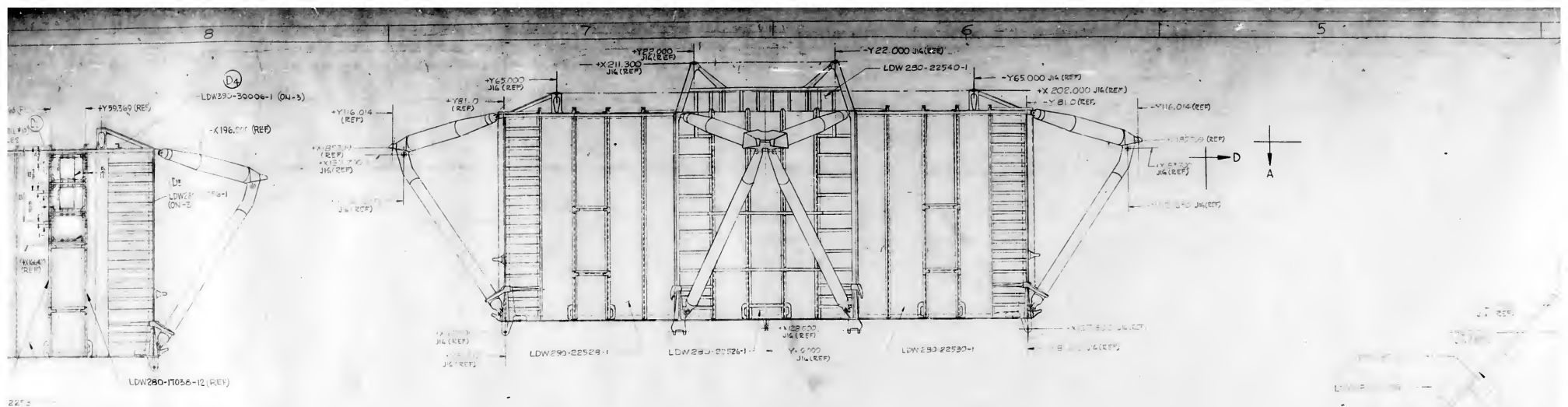


VIEW B-B (ROTATED 90° CW)  
LOOKING AFT  
SIMULATED MASS BEAMS NOT SHOWN

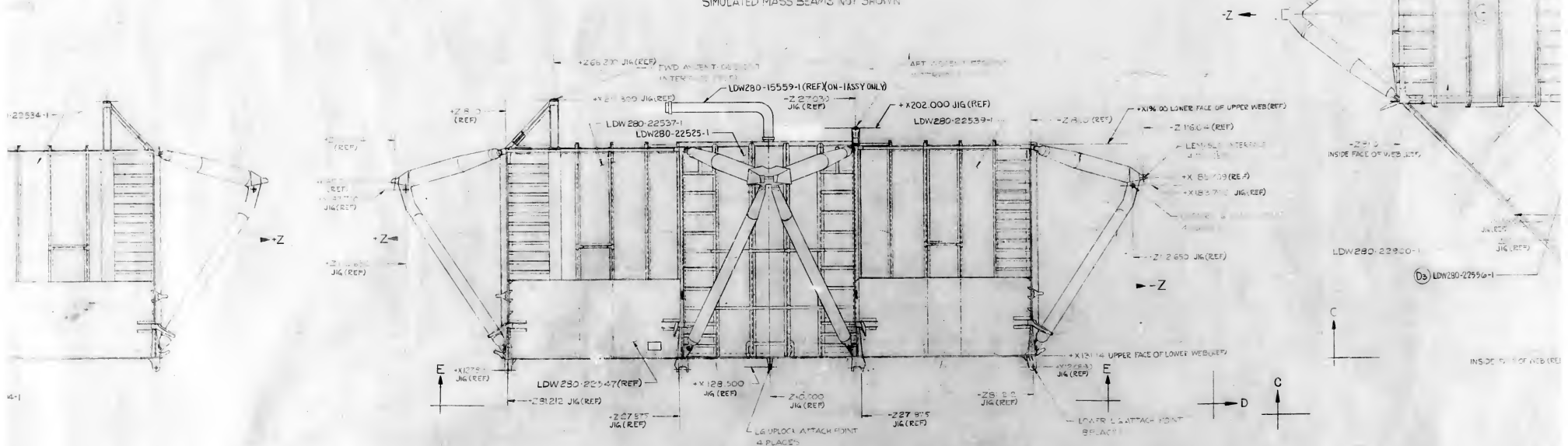


VIEW A-A (ROTATED 180°)  
LOOKING FORWARD - LH SIDE

NAS 8-1100



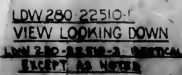
VIEW B-B (ROTATED 90° CW)  
LOOKING AFT  
SIMULATED MASS BEAMS NOT SHOWN



VIEW A-A (ROTATED 180°)  
LOOKING INBD - LH SIDE

02/04

NAS 9-1100

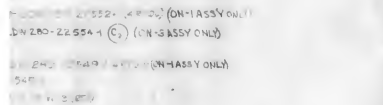


4. ADD PATCHES PER LFC289-174 AS OUTLINED IN PROCEDURE 6.12  
5. REMOVE WHITE PAINT (SEE NOTE #2) PRIOR TO APPLICATION  
OF NOTE #6 WITH METHYLENE CHLORIDE, ARL-D-60124  
(TECHNICAL GRADE) AND 80/100

[illegible]



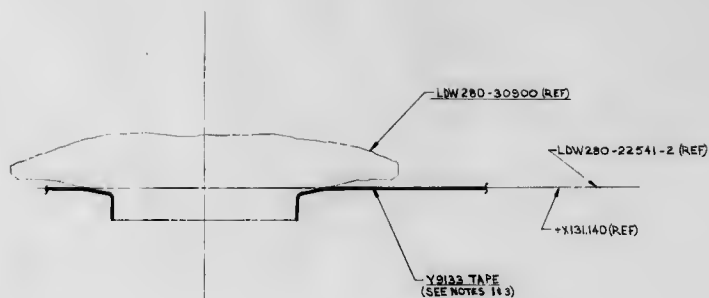
--	--

[illegible]

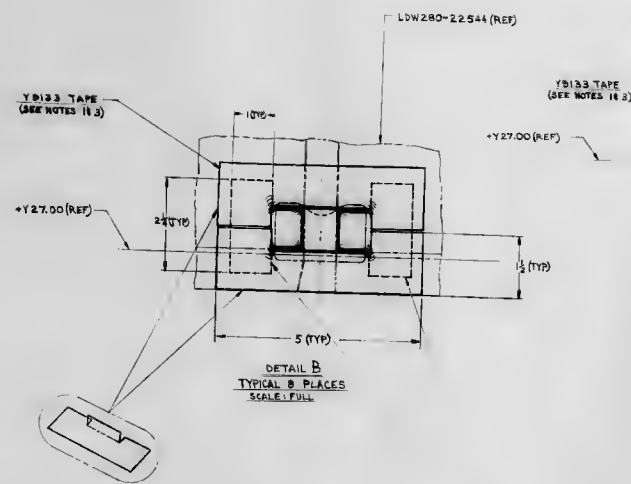
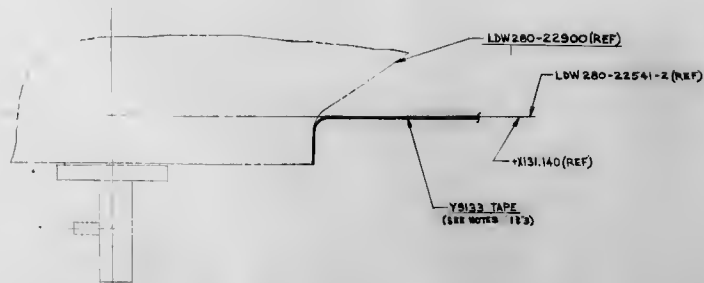
04/04		NAS 9-1100	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES (UNLESS SPECIFIED) FRACTIONS - DECIMALS - ANGLES		DRAWN BY: T. D. W. 100-44 LAYOUT BY: CHECKED BY: AIR LEADER:	
ORIG. ENG. AUTH. DETAIL SPEC. REQUIREMENT CLASS II ENGRS. CHANGE CLASS I ENGRS. CHANGE		STRUCTURE: USTRAN 100-44 STAG/TURN: USTRAN 100-44 WEIGHTS: ALUM. 100-44 PROJ. ENGR: R. 100-44 GOVT. APPD:	
GRUMMAN REL. INFO. DRW. (a) (b) (c) (d) (e) (f) (g) (h) (i) (j) (k) (l) (m) (n) (o) (p) (q) (r) (s) (t) (u) (v) (w) (x) (y) (z)		GRUMMAN AIRCRAFT ENGRS. CORP. BETHPAGE, L. I., N. Y. ASSEMBLY LM DESCENT STAGE STRUCTURAL CONTRACT NO. 100-44 DOCUMENT NO. 100-44 (ONE EACH) (1) 26512 J LDW280-22510 D SCALE: 1:100 SHEET: 100 SUPERSEDES: LDW280-22510: 100-44	

04/04 NAS 9-1103

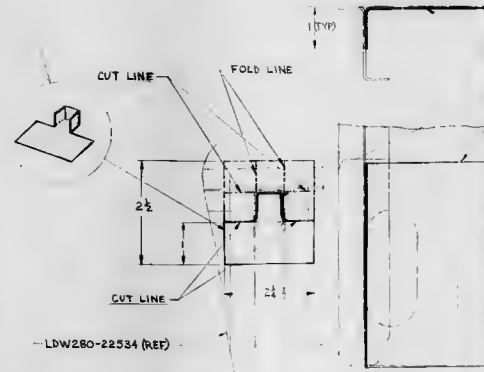
[illegible]



VIEW D-D  
TYPICAL 4 PLACES  
SCALE: HALF



Y9133 TAPE  
(SEE NOTES 1 & 3)



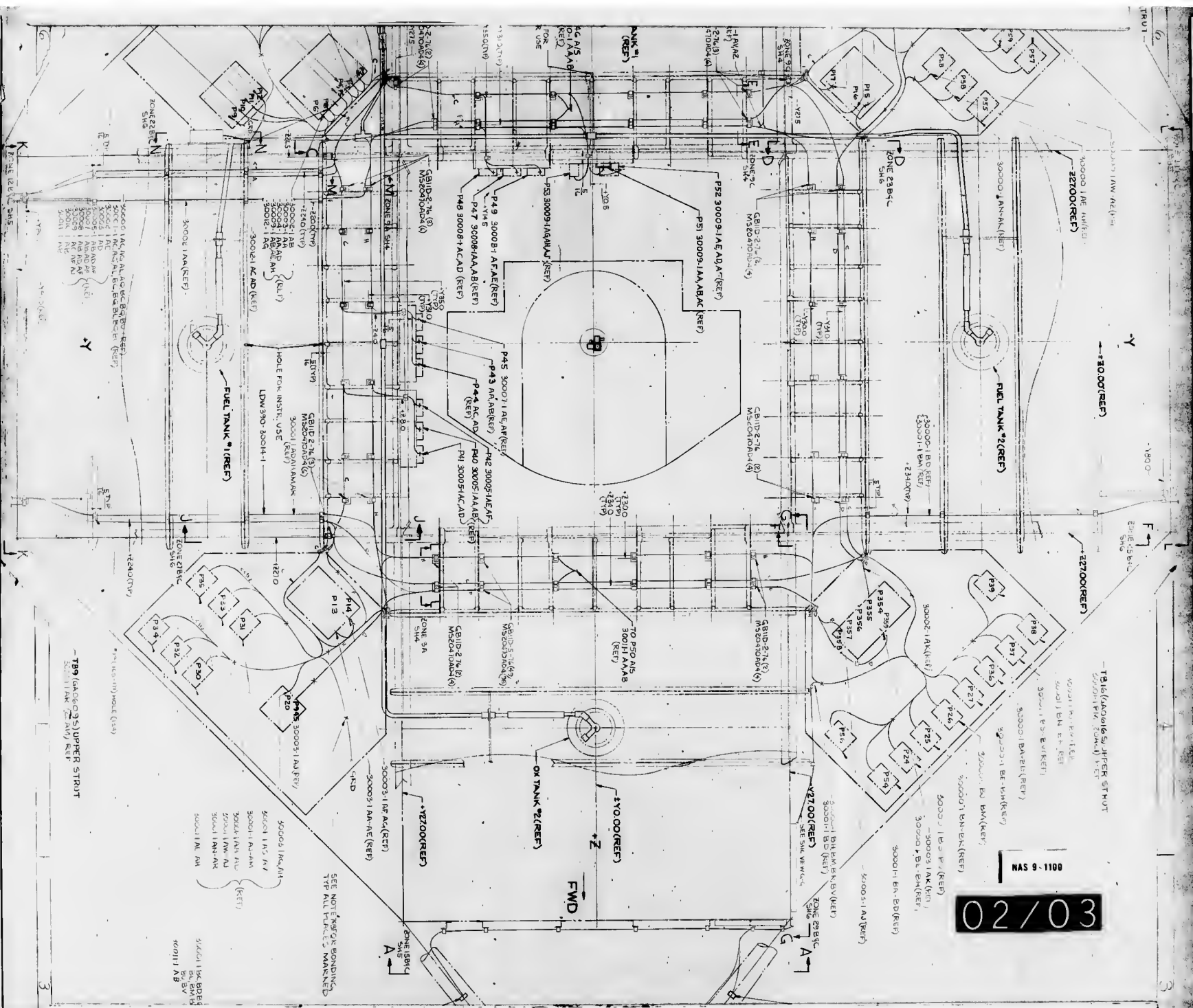
VIEW C-C  
TYPICAL 16 PLACES  
SCALE: FULL

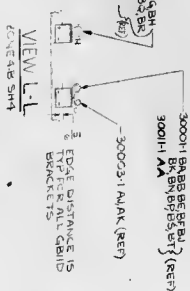











[illegible]

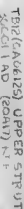
POINT TO BE LAG 

PULLING SPEED ONLY		
PULL SIDE SHORT AREA (30 X 1)-	05. 77.	
1/2 SIDE SHORT AREA 11/8 OF PULL)-	05. 77.	

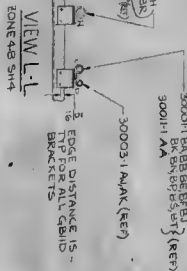
03 / 03

**NAS 9-1100**

GARIBOLDI ARCHITECT / ENGINEER, NEW YORK			
DATE	DATE SENT IN		
K	26512		
DATE OF THIS TEST		PAGE 1	





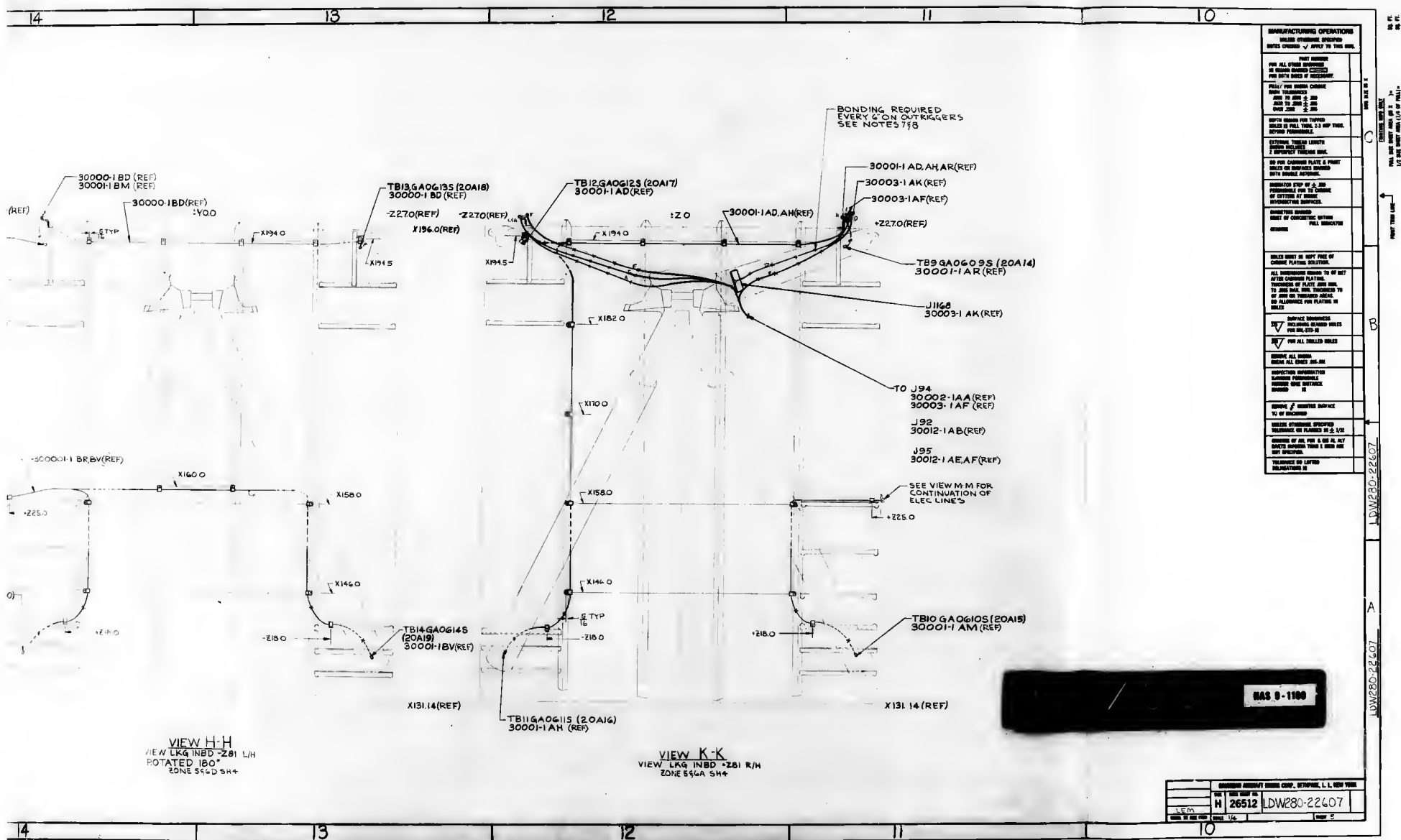


CONCRETE REINFORCING FABRIC, 12" X 12" X 1/4"		DATE	QUANTITY	UNIT	PRICE	TOTAL
K 26512		1000	1000	1000	1000	1000
DW250-2.1						
TOTAL						

**NAS 9-1100**







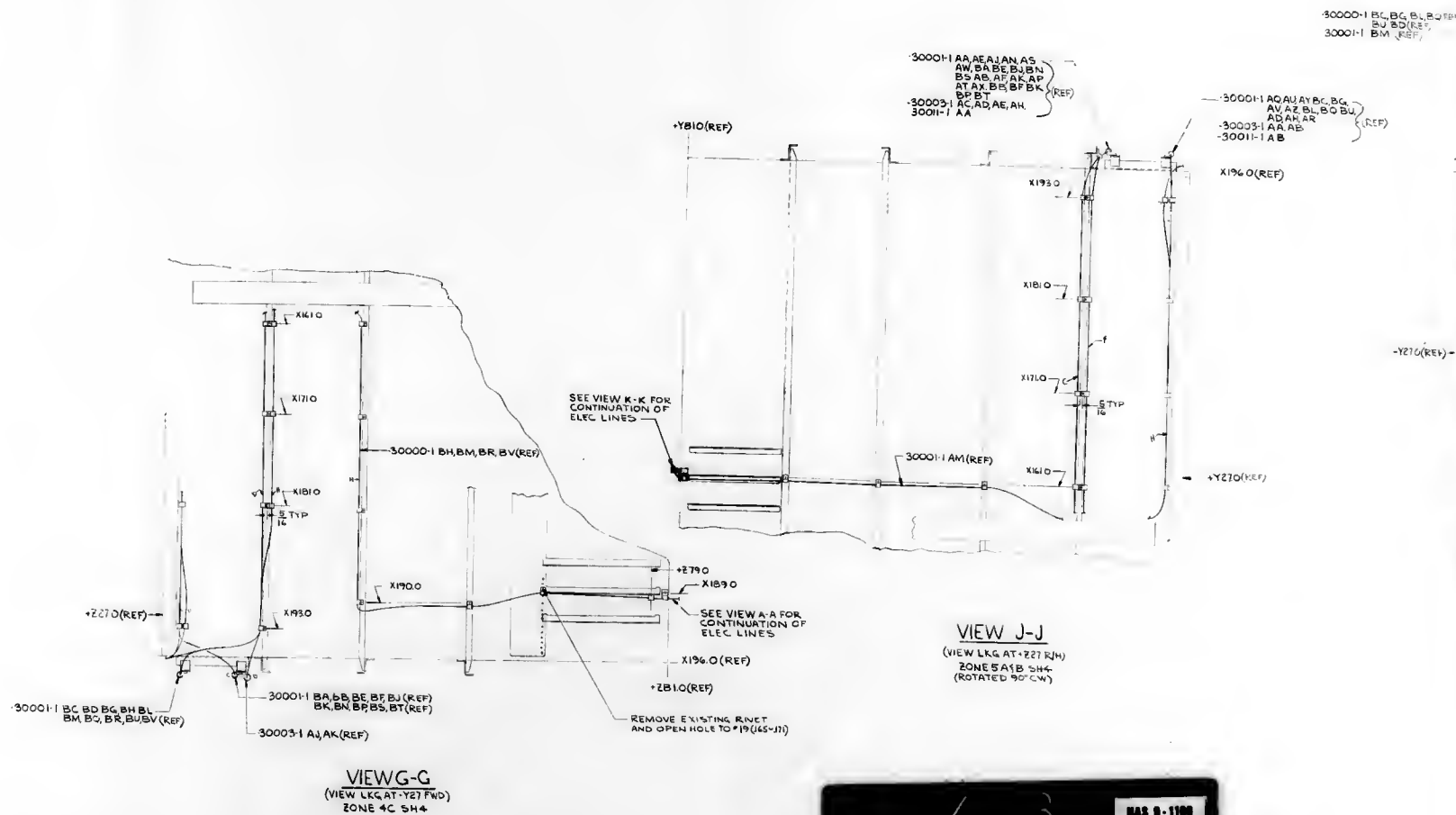
30

29

28

27

26



30

29

28

27

26

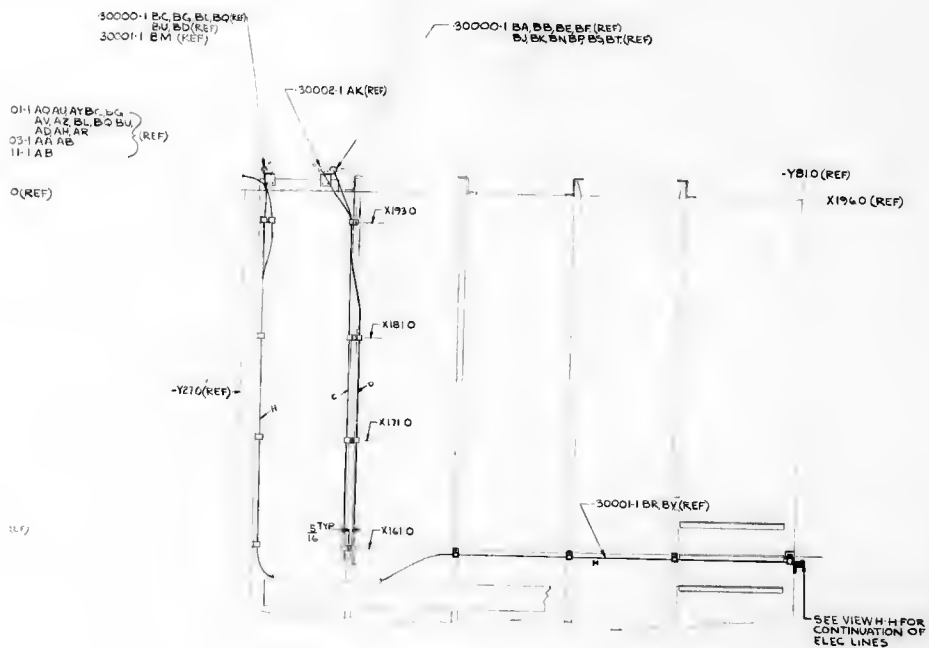
26

25

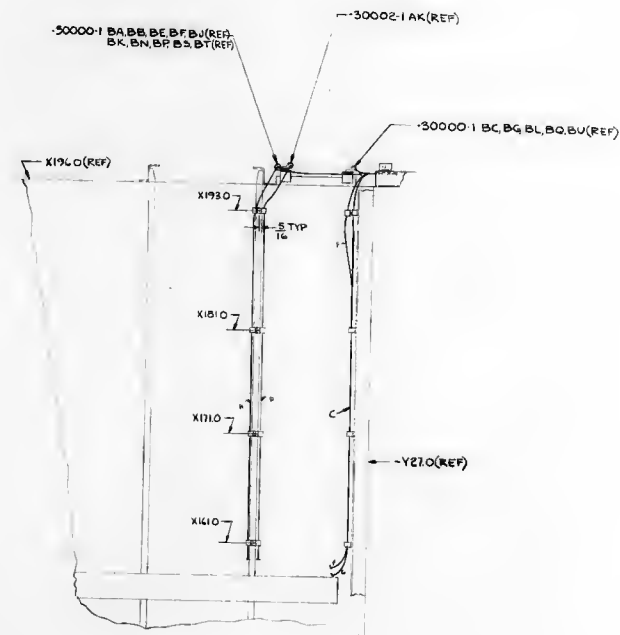
24

23

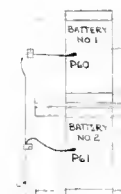
22

**VIEW F-F**

(VIEW LKG AT +227 LH)  
ZONE SC1D SH4  
(ROTATED 90° CW)

**VIEW D-D**

(VIEW LKG AT +2210 LH)  
ZONE GC SH4  
(ROTATED 90° CCW)



**VIEW N-N**  
(VIEW LKG AT +227 LH)  
ZONE GA SH4  
(ROTATED 90° CCW)



26

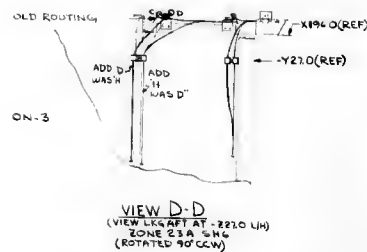
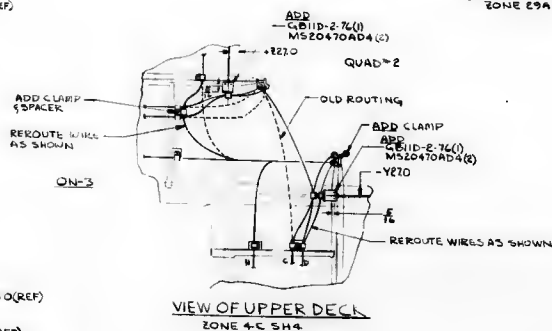
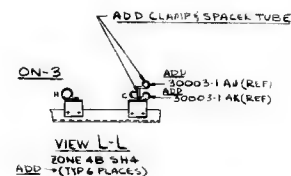
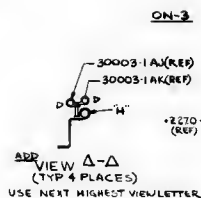
25

24

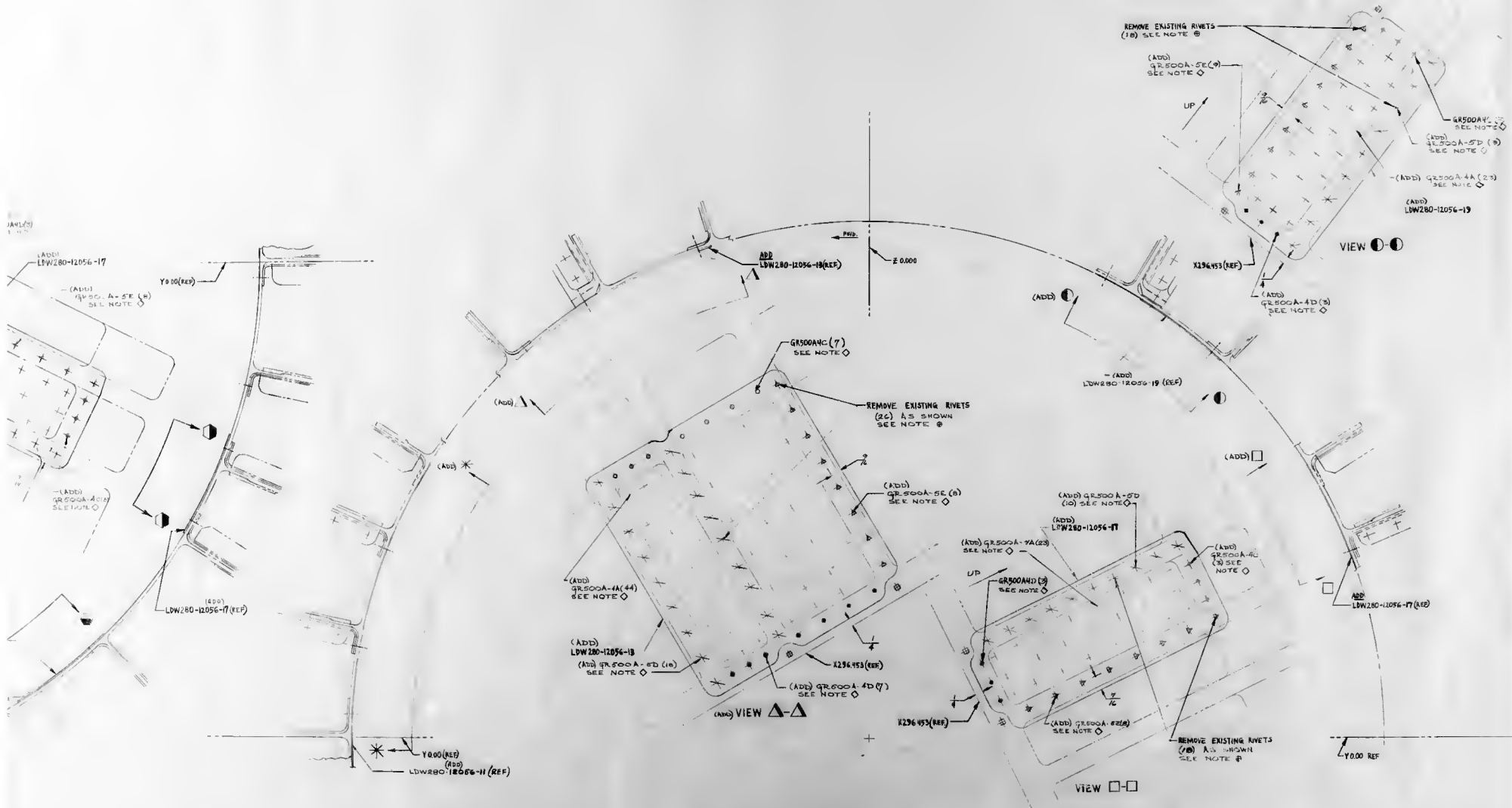
23

22



[illegible]







UNNEL	EDWZ002/027	110
-------	-------------	-----

[illegible]

REVISIONS															
CHANGE LTR	ITEM NO.	SHEET NO.	ZONE	GRUMMAN INFO ONLY	DET SPEC	CLASS I	CLASS II	ENGRG ORDER	DESCRIPTION	EFFECTIVITY	DISPOSITION OF EXISTING PARTS		CHANGED BY AND DATE	ENGRG APPD	QMR APPD
											REWORK	SCRAP			
A	1	1.10						LEO280-4	ADDED SH 10. SH 1 OF 8 WA SH 1 OF 7. ADDED LEM-2 (32) & LEM-3 (33) EFF FOR ALL DASH NOS.	LEM-2 (32)	NOT REQD		J. MULLINGS 8-5-65		
	2	1	2C				EO A2	CORRECTED HOLE SIZE FOR NAS1525 & NAS1526	LEM-2 (33)	REQD					
	3	2.00	3C				EO A3	IN F/D & B/M ADDED; LDW280-10267-15, NAS1525-2 (4) NAS1080D5 (4), LDW280M10266-1, NAS1526-3, NAS1526-4, LDW280M10269-3 & -4 WAS -1 & -2. IN F/D & B/M NAS1526-2 WAS NAS1526-2 (7) (REVISED SECT. N-N TO AGREE WITH ABOVE CHANGE. LDW280-23073 WAS LDW280-23077 (REF)	NOT REQD	NOT REQD					
	4	2.01	5C					ADDED SH 5. SH 1 OF 9 WAS SH 1 OF 8. REMOVED -1 & -2 INSTL & ADDED -3 & -4 INSTL.	LTA-3; LEM-3 THRU LEM-6						
B	1	1.10, 2.03 & 4					✓	EO. B1	IN FIELD & B/M ADDED LDW280-10511-11, MS20470AD4 (22) & 2" DIA. HOLE IN -2 INSTL ONLY.	LTA-3; LEM-3, -4, -5 & -6	✓		CARLINO 8-3-66		
	2	2.03 & 5						REF EO. B1 ADDED LDW280-10511-11 SHOULD BE LDW-280-10511-13; -2 INSTL SHOULD BE -4 INSTL & 2" DIA. HOLE PREVIOUSLY ON DWG.	NOT REQD	REQD					
C	1	1.10	7C					EOC1	IN FIELD & B/M LDW280-10466-21 & 22 WAS -19 & -20 LDW280-10467-21 & -22 WA -17 & -18	LTA-3 LEM-3 & -4	✓		J. MULLINGS 8-5-65		
	2	2.01 & 5	5C					EOC2	SUPERSEDED BY EO C6	NOT REQD	REQD				
	3							EOC3	SUPERSEDED BY EO C7	NOT REQD	REQD				
	4	1.10, 2.03	2A					EOC4	IN FIELD & B/M (ON-4) LDW280-10397-13 WAS LDW280-10397-11	LTA-3	✓				
7	5	1.10, 2.03	7B					EOC5	IN FIELD & B/M FOR -3 & -4 REMOVED HLIOV-5-3(4) & HL70-4(1)	LTA-3; LEM-3, -4, -5 & -6	✓		J. MULLINGS 8-5-65		
	6	1.10, 2.01	10C					EOC6	SUPERSEDES EOC2. ON SH 3 & 2.02 ON-3 ADDED LDW280-11070-13 & -18, HLIOV-6-4, HLIOV-6-5(2), HLIOV-5-4(4), HLIOV-5-5(2), HL70-5(6), GN512H-3(3), NAS1526-4(3), NAS1080D-4(3), MS20470AD4 & NAS1097-AD5(1)	✓					
	7	1.00, 1.10, 2.02, 3.00	7B					EOC7	SUPERSEDES EOC3. ON SH 1, 202 & 3 ON-4 ADDED LDW280-11070-16 & HLIOV-6-5(2), HLIOV-6-4(1), HLIOV-5-4(4), HLIOV-5-5(2), HL70-5(6), GN512H-3(3), REM LDW280-10511-13(1) & MS20470AD4 (2.2)	✓					

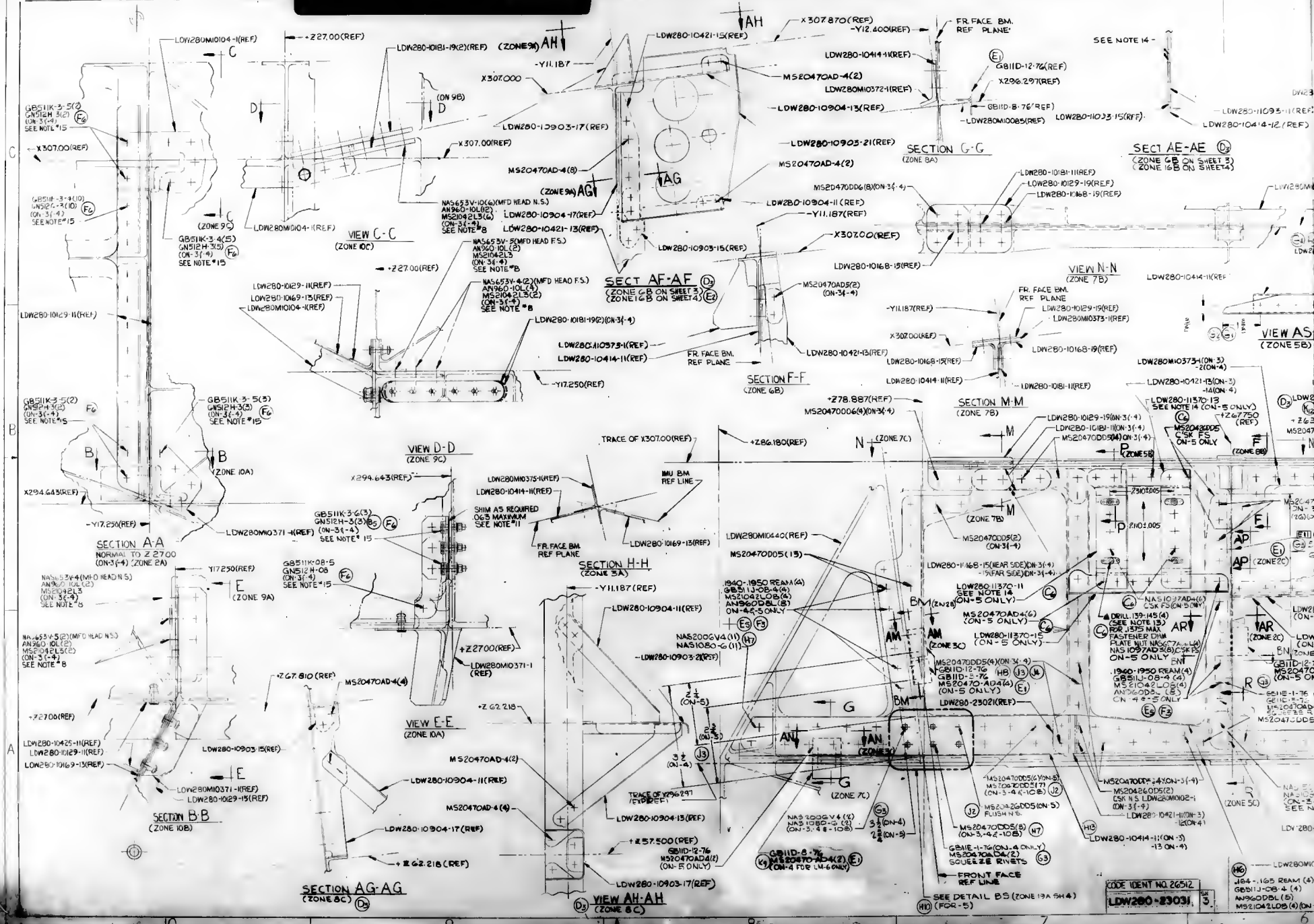
GRUMMAN AIRCRAFT ENGRG CORP., BETHPAGE, L. I., NEW YORK  
 SIZE B CODE IDENT NO. 26512 LDW280-23030 E  
 SCALE NONE SHEET 1.10

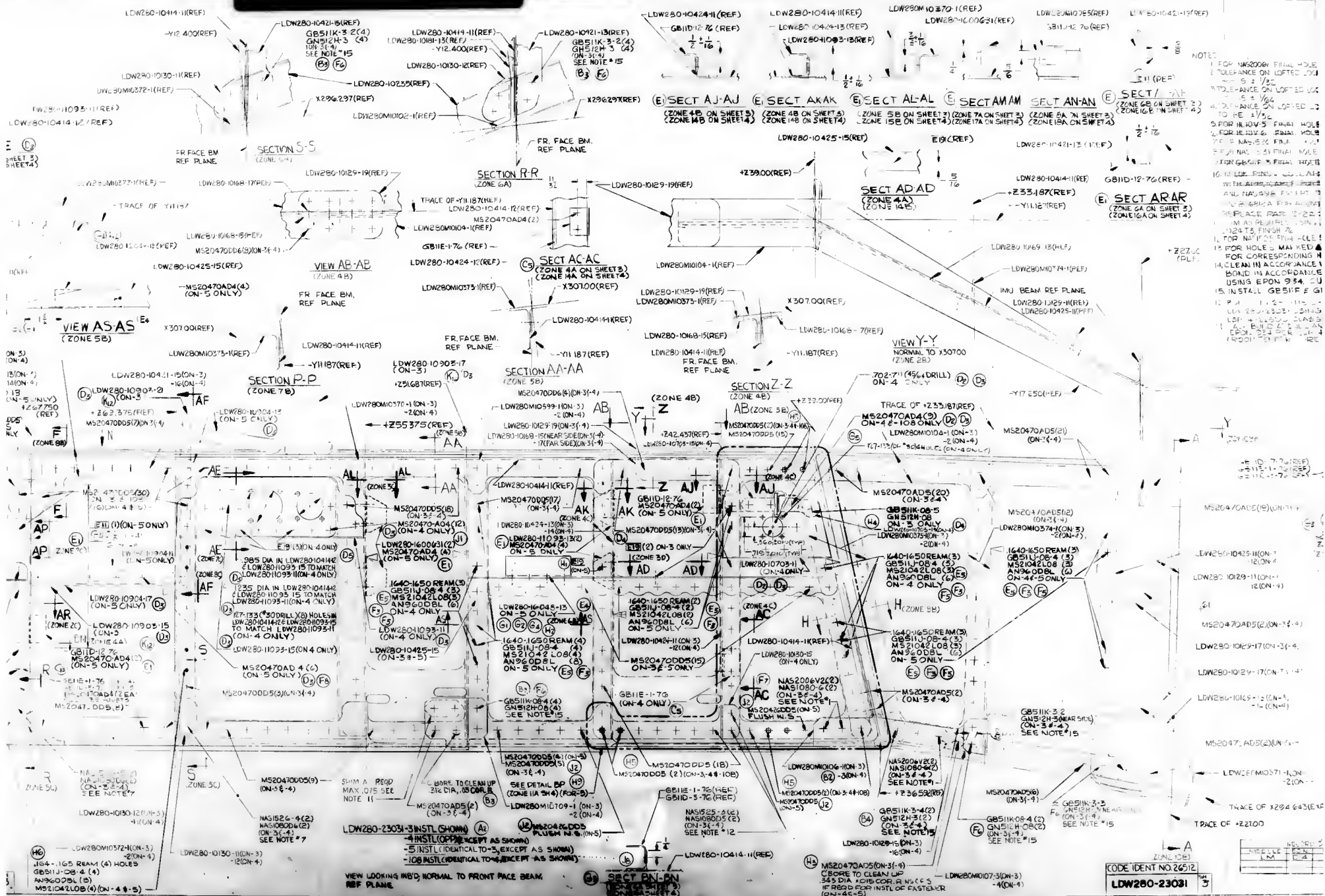
FOR CONTINUATION OF REVISIONS SEE SHEET 1.11

END 773 564

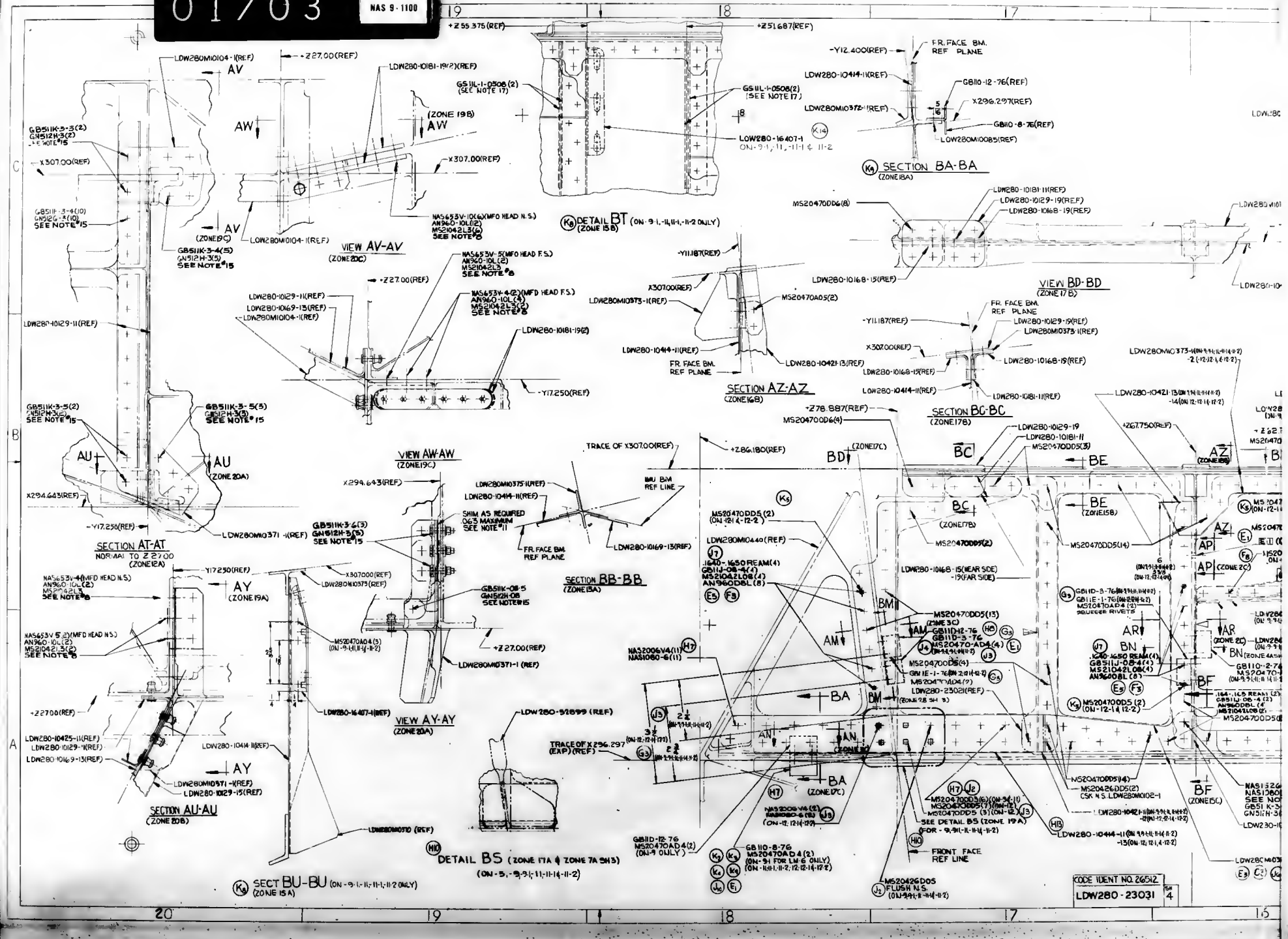
01

NAS 9-1100









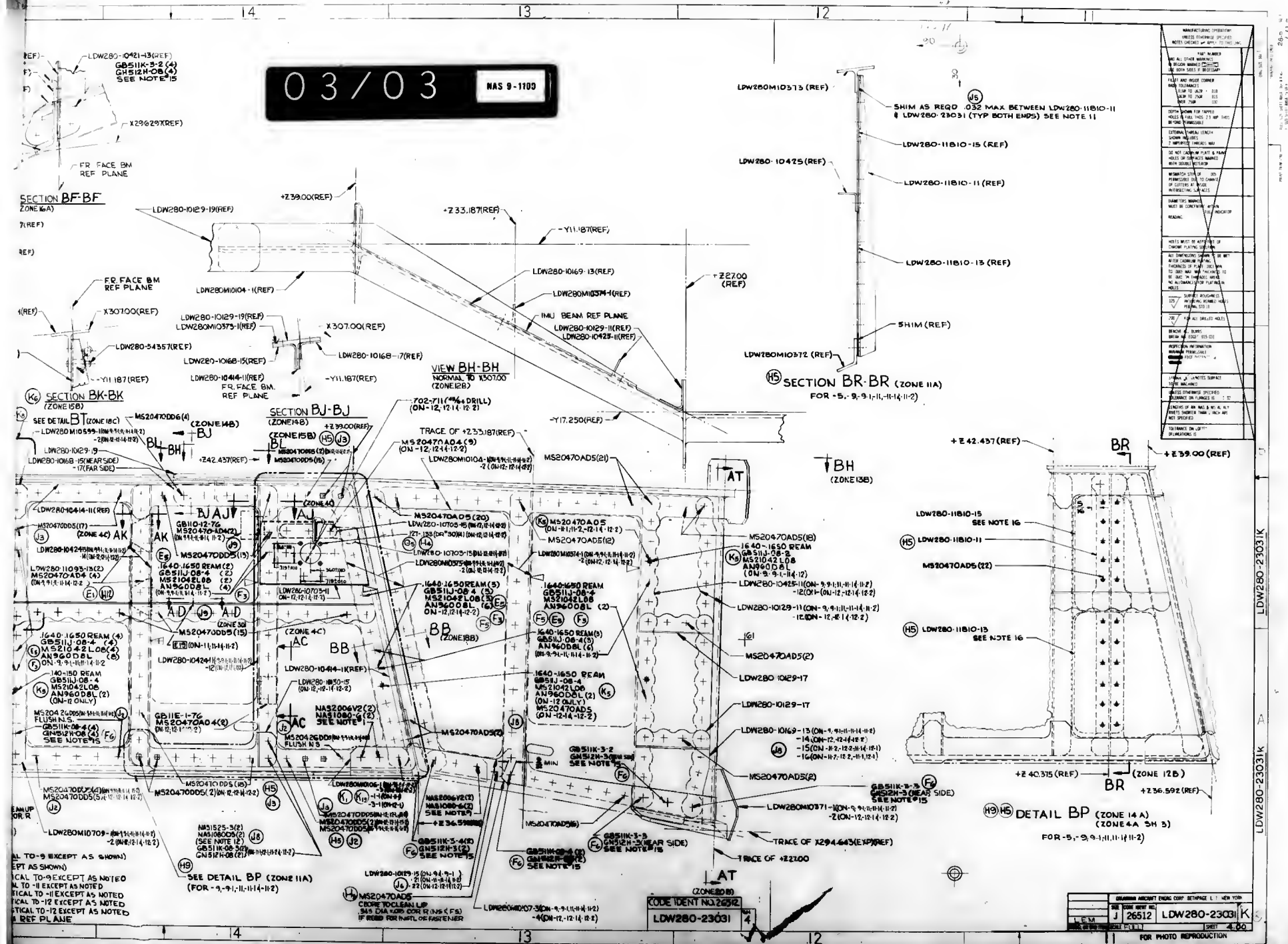
SECT BU-BU (ON-9-1-11-11-2 ONLY)  
(ZONE 15A)

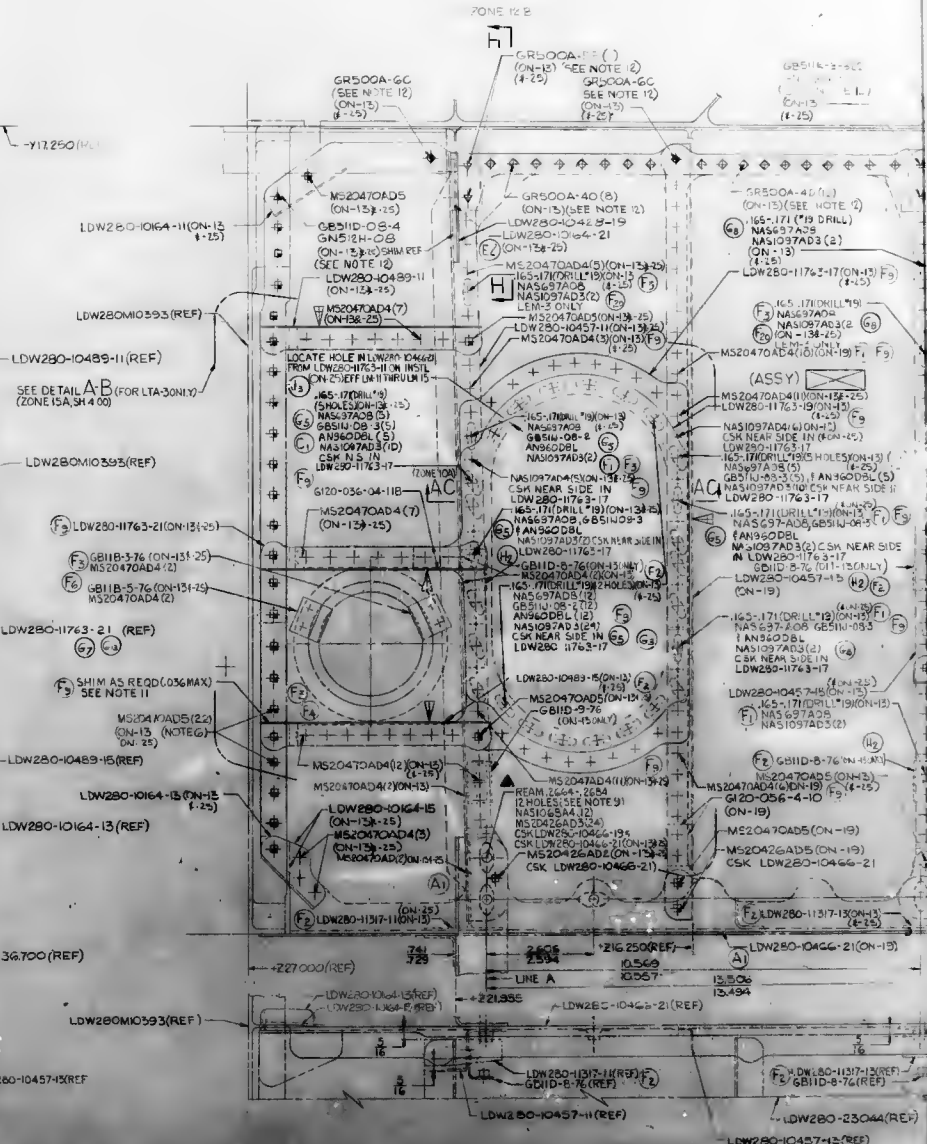
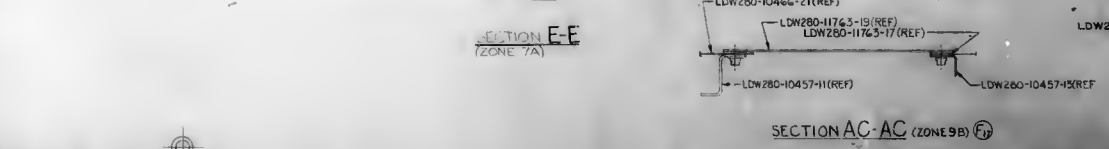
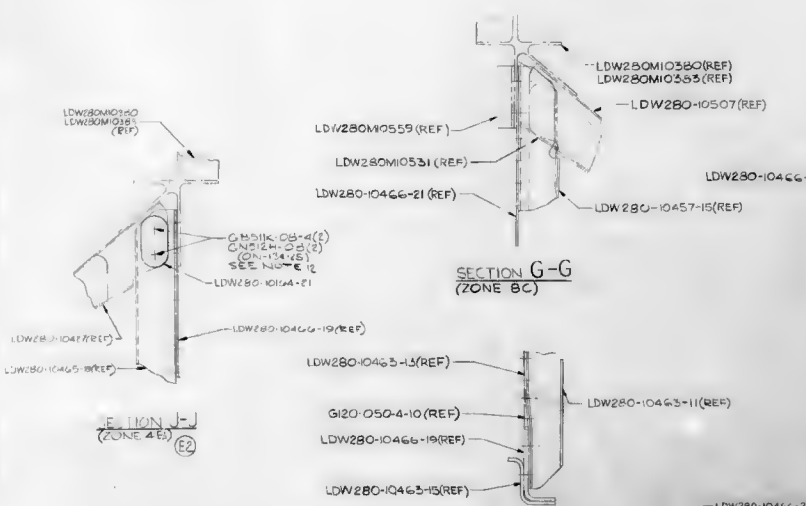
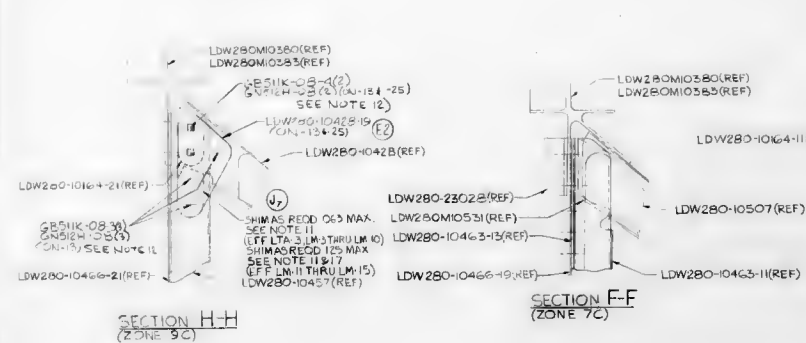
DETAIL BS (ZONE 17A & ZONE 7A SHS)  
(ON-9-1-11-11-11-2)

CODE IDENT NO 26512  
LDW280-23031



NAS 9-1103





















SECTION K-K  
(ZONE 86)



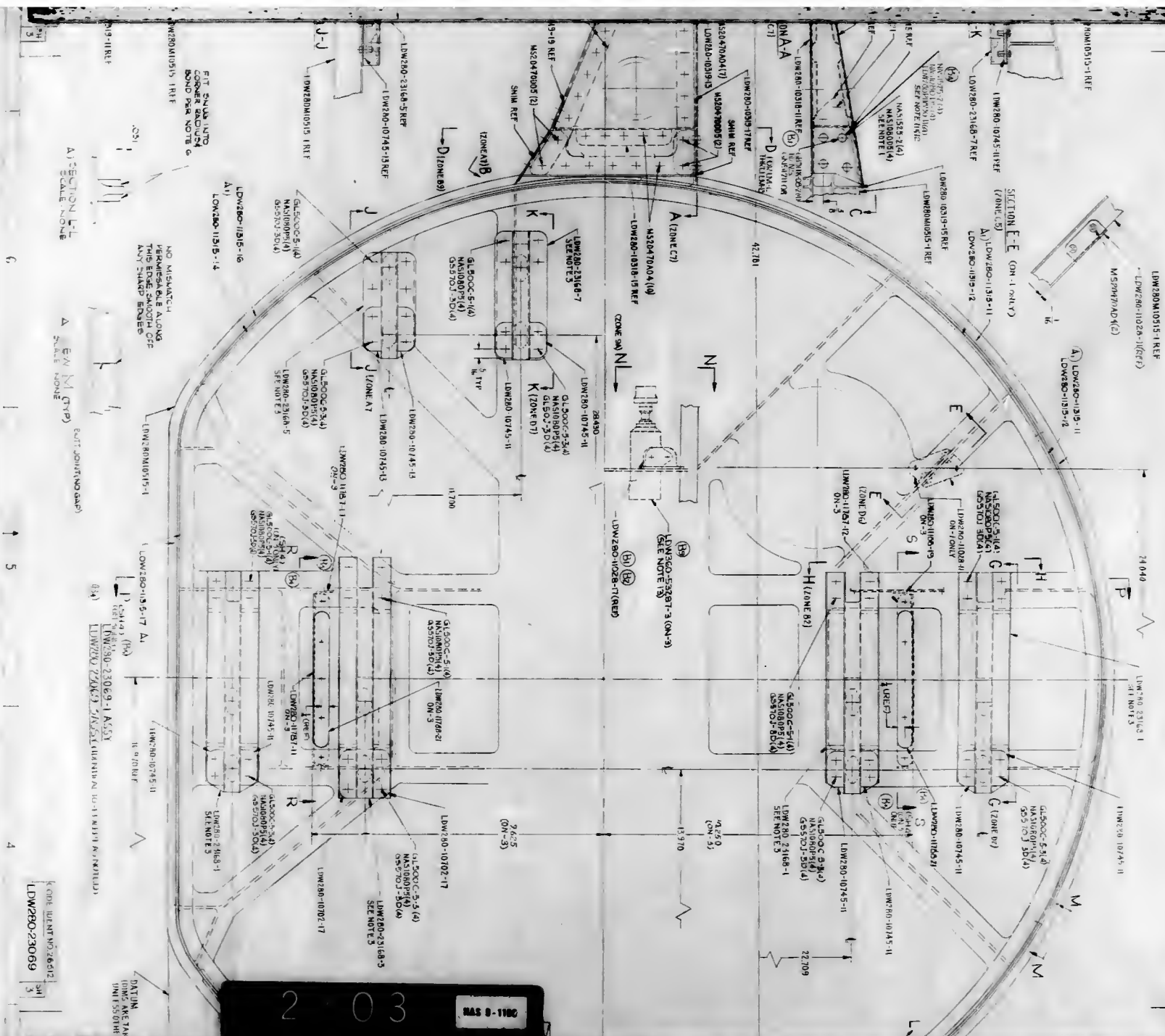
SECTION A-A  
(ZONE C7)



SECTION J-J  
(ZONE A6)



4-T,N-N<sub>1</sub>(ONEER)  
(ON-3 ONLY)  
(1BW 40-53287-3 NOT SHOWN)



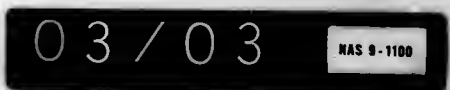
**WAS 9-1102**

2

**MAINTENANCE OPERATIONS**  
✓ **WELDS OTHERWISE SPECIFIED**  
**NOTES CATCHED ✓ APPLY TO THIS DRAW.**

- [illegible]

RECORD DATA	
MODEL	EFFECTIVITY
LM	LTA-3UB3
LM	FOB3
	LTA-3UB3



GARDNER HANCOCK ENGINE CORP., BETHUNE, I. I. NEW YORK	
DATE	COPY SENT TO
K 26512	LDW28023069
ITEM	

2